

Reasoning and Problem Solving Imperial Units

Developing

- 1a. Syrup because they weigh 10kg, whereas the others weigh 5kg.
2a. Various answers, for example: 2,399ml, 2,939ml, 2,993ml, 3,299ml, 3,929ml
3a. Yes. $10\text{cm} \times 26 = 260\text{cm}$ and that is enough for 100 inches

Expected

- 4a. Sugar because it weighs 9.9lbs, whereas the others weigh 16.5lbs.
5a. Various answers, for example: 1,258ml, 1,285ml, 1,528ml, 1,582ml
6a. No, Michelle is not correct. 6 inches = 15.24cm. $15.24 \times 12 = 182.88\text{cm}$. Michelle will need 14 lengths of bamboo.

Greater Depth

- 7a. Two bags of flour are the odd ones out because they weigh 7.26lbs, whereas the others weigh 6.6lbs.
8a. Various answers, for example: 1,542ml, 1,524ml, 1,425ml, 1,452ml
9a. No, Justin is not correct. 50 inches = 127cm, and $5 \times 127\text{cm} = 635\text{cm}$. She would only be able to wrap 4 presents.

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Developing

- 1b. Biscuits because they weigh 4lbs, whereas the others weigh 4.4lbs.
2b. Various answers, for example: 1,278ml, 1,287ml, 1,728ml, 1,782ml, 1,827ml, 2,178ml, 2,187ml
3b. No, Hafsah is not correct. 10 inches = 25.4cm, so $4 \times 25.4\text{cm} = 101.6\text{cm}$. Hafsah will only get 3 from each length.

Expected

- 4b. Syrup because it weighs 2.5kg, whereas the others weigh 2kg
5b. Various answers for example: 2,019ml, 2,091ml, 2,109ml
6b. No, Lacey is not correct. Cameron needs 30 inches which is 76.2cm, so 70cm of fabric is not enough.

Greater Depth

- 7b. Sugar because it weighs 5.4lbs, whereas the others weigh 2kg.
8b. Various answers, for example: 1,256ml, 1,265ml, 1,526ml, 1,562ml
9b. No, Xin is not correct. 40 inches = 101.6cm, so 3 planks would only give her 304.8cm and she needs 350cm. Marsha will need to buy 4 planks.